

Wireless Analogue Output Module



The wireless analogue output modules provide a configurable analog output for a single T24 Radio Telemetry Acquisition module



User Benefits

- Provide analogue output for T24 acquisition modules
- One to one transmission up to 2 kHz (dependant on acquisition module)
- Industrial & desktop versions available

Ideal Application

- Torque Measurement
- Agriculture
- Automotive
- Civil Engineering

Introduction

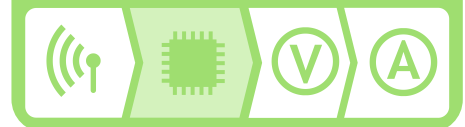
The T24-A01 and T24-A01i provides a configurable analog output for the range of T24 acquisition modules. The T24-A01i is housed in an IP65 housing for industrial installation whilst the T24-A01 is designed for desktop mounting with a reduced wireless range of 20 metres.

The output can be selected from the pre-calibrated voltage and current ranges. 0-10 V, ± 10 V, 0-5 V, ± 5 V, 0-20 mA, 4-20 mA all of which can be used in a 'sink' or source mode.

LED's in the T24-A01 provides indication of the state of the radio link, remote battery life and remote status. The T24-A01i uses open collector's outputs to relay this information A digital Input allows for zeroing of the incoming data value. The T24-A01 modules are easily configured by the T24 Toolkit and a base station.

Specification at a Glance

- Range of configurable analog outputs including 0-10 V 4-20 mA, 0-20 mA, ± 10 V, ± 5 V
- Choice of enclosures depending on application
- Simple configuration via PC using base station with Telemetry Toolkit software
- Integrated antenna
- 1 year manufacturer's warranty
- IP rating T24-A01 IP50, T24-A01i IP65 / NEMA 4



Related Product



T24-BSu
USB Base Station to configure and calibrate T24 products



T24-BSi
Radio telemetry base station for USB RS485 RS232



T24-ACM/ACMi/ACMm
Wireless sensor enclosures



T24-SAf
Strain gauge to radio telemetry converter 2 kHz

Related Software



T24 Toolkit
Software used to calibrate and configure your T24 devices

Case Study

The Application:

Lotus Engineering, the consultancy division of Lotus Cars Limited, approached Mantracourt to provide a bespoke system of measuring torque on a steering column. This system would need to replace a costly and fragile wiring arrangement with a wireless link system that could be easily re-used.

Lotus required high frequency readings that could be transmitted wirelessly and then decoded and out-putted as a scalable analogue output to integrate with its existing loggers and analytical tools.

The Solution:

A T24-SAi strain acquisition module was fitted to the strain gauges mounted on the steering shaft transmitting readings at 200Hz. A T24-AO1 analogue output module was used to provide $\pm 10v$ output for the full scale input on the acquisition module.



The T24-SAi is simply paired to the T24-AO1 which in turn is connected to an existing data logging system which features GPS to give accurate position data to correlate with strain readings. Together, the T24-SA and T24-AO1 provide a complete cable replacement.

CE & Environmental

Storage temperature	- 40 to +85°C
Operating temperature	- 40 to +85°C
Relative humidity	95% maximum non condensing
IP rating T24-AO1	IP50
IP rating T24-AO1i	IP65 / NEMA 4

CE Environmental Approvals

European EMC Directive	2004/108/EC
Low Voltage Directive	2006/95/EC

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